SCANDINAVIAN JOURNAL OF *Gastroenterology*

Volume 28, 1993
January 1993 – December 1993

SCANDINAVIAN UNIVERSITY PRESS

Oslo - Stockholm

SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY

Scandinavian Journal of Gastroenterology is the membership journal for the gastroenterologic societies of Denmark, Finland, Iceland, Norway, and Sweden.

EDITORS

E. Gjone, *Editor-in-Chief, Oslo* I. Ihse, *Lund* O. Kronborg, *Odense* E. Oddsson, *Reykjavik* O. Søreide, *Olso* K. Varis, *Helsinki*

ASSOCIATE EDITORS

L. E. Hanssen and E. Schrumpf, *Oslo*

FOUNDING EDITOR

J. Myren

EDITORIAL BOARD

S. Aase, *Norway*
J. Alexander-Williams, *UK*
F. Bárány, *Sweden*
I. S. Benjamin, *UK*
A. Berstad, *Norway*
G. Bianchi Porro, *Italy*
P. Brandtzaeg, *Norway*
J.-A. Chayvialle, *France*
P. B. Cotton, *USA*
M. Crespi, *Italy*
C. T. de Dombal, *UK*
W. Domschke, *Germany*
K. Einarsson, *Sweden*
O. Fausa, *Norway*
C. Fenger, *Denmark*
D. Y. Graham, *USA*
K. Gyr, *Switzerland*
R. Håkanson, *Sweden*
J. H. Henriksen, *Denmark*
B. I. Hirschowitz, *USA*
K. Höckerstedt, *Finland*
J. J. Holst, *Denmark*
M. Jablonská, *The Czech Republic*
G. Järnerot, *Sweden*
D. P. Jewell, *UK*
S. J. Jiang, *China*
A.-L. Karvonen, *Finland*
C. F. Kiire, *Ethiopia*
E. Kivilaakso, *Finland*
S. J. Konturek, *Poland*
A. S. Loginov, *Russia*
M. Makuuchi, *Japan*
J. R. Malagelada, *Spain*
U. F. Malt, *Norway*
M. Manialawi, *Egypt*
J. Martinson, *Sweden*
N. McIntyre, *UK*
T. Midtvedt, *Sweden*
T. Miettinen, *Finland*
P. B. Mortensen, *Denmark*
K. Nygaard, *Norway*
L. M. Nyhus, *USA*
K. Okuda, *Japan*
L. Olbe, *Sweden*
G. Paumgartner, *Germany*
H. Petersen, *Norway*
D. W. Piper, *Australia*
D. Rachmilewitz, *Israel*
J. Rask-Madsen, *Denmark*
S. N. Rasmussen, *Denmark*
P. Riis, *Denmark*
S. Ritland, *Norway*
T. Rösch, *Germany*
S. Rune, *Denmark*
O. B. Schaffalitzky de Muckadell, *Denmark*
K. Seppälä, *Finland*
Sheila Sherlock, *UK*
J. J. Sidorov, *Canada*
M. V. Singer, *Germany*
P. Sipponen, *Finland*
R. Sjödahl, *Sweden*
K. Svanes, *Norway*
R. K. Tandon, *India*
A. Torsoli, *Italy*
G. N. J. Tytgat, *The Netherlands*
B. Uvnäs, *Sweden*
G. Vantrappen, *Belgium*
M. H. Vatn, *Norway*
F. Vilardell, *Spain*
J. J. Villalobos, *Mexico*
O. Weiland, *Sweden*
H. Worning, *Denmark*

SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY (ISSN 0036-5521) is published monthly by Scandinavian University Press. Supplements are supplied free of charge to subscribers, and copies may also be purchased on application to the publishers. Annual subscription price for 1993 is NOK 2695 (approx. USD 450) (NOK 2500 for the Nordic countries), to be paid in advance. Airmailed to subscribers worldwide. This journal can be ordered in microform from University Microfilms International, 300 N. Zeeb Rd., Dept. P.R., Ann Arbor, MI 48106-1346, USA. Air freight and mailing in the USA by Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003, USA. Second-class postage paid at Jamaica, NY 11431. U.S. Postmaster: send address changes to *Scandinavian Journal of Gastroenterology*, Scandinavian University Press, 200 Meacham Ave., Elmont, NY 11003, USA. All subscriptions in Japan should be ordered through Maruzen Co. Ltd., 3-10 Nihonbashi 2-chome, Chuo-ku, Tokyo 103, Japan.

Articles in *Scandinavian Journal of Gastroenterology* are covered by the following indexing and abstracting services: Biological Abstracts; Cambridge Scientific Abstracts Part 3, Amino-Acids Peptides & Proteins; Chemical Abstracts; Current Contents/Clinical Medicine; Energy Research Abstracts; Excerpta Medica; Index Medicus; Iowa Drug Information Services (1968–); Life Sciences Collection; Medical; PESTDOC; Ringdoc; Science Citation Index; VETDOC.

Spanish edition distributed by Sanidad Ediciones, S.A.
Chinese edition distributed by the Shanghai Institute of Digestive Diseases.

EDITORIAL CORRESPONDENCE

Manuscripts should be addressed to The Editors, *Scandinavian Journal of Gastroenterology*, Medical Dept. A, Rikshospitalet, N-0027 Oslo, Norway. The editors have no objection to the reproduction of short passages and illustrations from this journal without further formality than acknowledgement of the source.

PUBLISHER

Business communications, including subscriptions and orders for offprints or advertisements, should be sent to Scandinavian University Press, P.O. Box 2959 Tøyen, N-0608 Oslo, Norway (phone: 47 22 575400; fax: 47 22 575353). U.S. address: c/o Publications Expediting Inc. (see above).

© 1993 Scandinavian University Press (Universitetsforlaget AS). Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Scandinavian University Press for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $5.00 per copy is paid directly to CCC, 27 Congress Street, Salem, MA 01970, USA. 0036-5521/93/$5.00. All other rights, including microfilm, reserved.

PAGE BROS Computer typeset and printed offset litho by Page Bros, Norwich, England.

No. 1

1 Review: Assessment of Disease Severity and Activity in Inflammatory Bowel Disease
J. KJELDSEN & O. B. SCHAFFALITZKY DE MUCKADELL

10 A Model of Cholestasis in the Rat, Using a Microsurgical Technique
M. A. ALLER, L. LORENTE, S. ALONSO & J. ARIAS

15 Oat Bran, Rye Bran, and Soybean Hull Increase Goblet Cell Volume Density in the Small Intestine of the Golden Hamster. A Histochemical and Stereologic Light-Microscopic Study
E. LUNDIN, J.-X. ZHANG, C.-B. HUANG, C.-O. REUTERVING, G. HALLMANS, C. NYGREN & R. STENLING

23 Mandibular Osteomas in Sporadic Colorectal Carcinoma. A Genetic Marker
J. O. SØNDERGAARD, M. S. RASMUSSEN, H. VIDEBÆK, I. T. BERNSTEIN, T. MYRHØJ, V. B. KRISTIANSEN, P. SOMMER & S. BÜLOW

25 Characteristics of Teen-age Patients with Juvenile Duodenal Ulcer. Relation between Inherited Hyperpepsinogenemia I and Duodenal Ulcer
M. KIMURA, N. UEMURA, K. SUMII, A. INBE, M. YOSIHARA, K. HARUMA & G. KAJIYAMA

31 The Influence of Surgically Induced Acute Liver Failure on the Intestine in the Rat
X. D. WANG, A. AR'RAJAB, R. ANDERSSON, V. SOLTESZ, W. WANG, M. SVENSSON & S. BENGMARK

41 Effects of H_1-Receptor Antagonists on ^{14}C-Aminopyrine Accumulated in Histamine-Stimulated Rabbit Gastric Glands
G. NILSSON, B. ROMELL, K. GIRMA & R. SEENSALU

49 Substance P Levels in the Rectal Mucosa of Diabetic Patients with Normal Bowel Function and Constipation
J. LYSY, F. KARMELI & E. GOLDIN

53 Modification of Reticuloendothelial Function by Muramyl Dipeptide-Encapsulated Liposomes in Jaundiced Rats Treated with Biliary Decompression
J. W. DING, R. ANDERSSON, B. HULTBERG, V. SOLTESZ & S. BENGMARK

63 Autonomic Nervous System Function in Patients with Functional Abdominal Pain. An Experimental Study
L. S. JØRGENSEN, P. CHRISTIANSEN, U. RAUNDAHL, S. ØSTGAARD, N. J. CHRISTENSEN, M. FENGER & H. FLACHS

69 H_1 Receptor Mediates Inositol Phosphates Response to Histamine in Gastric Smooth Muscle of Guinea Pigs
S. S. SIM, Y. H. JO, S. J. HAHN, S. H. YOON, D. J. RHIE & M. S. KIM

73 Enterochromaffin-like Cells in Rat Stomach Respond to Short-Term Infusion of High Doses of Cholecystokinin But Not to Long-Term, Sustained, Moderate HyperCCKemia Caused by Continuous Cholecystokinin Infusion or Pancreaticobiliary Diversion
A.-G. NYLANDER, D. CHEN, I. LILJA, J. AXELSON, I. IHSE, J. F. REHFELD, F. SUNDLER & R. HÅKANSON

80 Pancreaticobiliary Juice Releases Motilin during Phase I of the Migrating Motor Complex in Man
I. NILSSON, T. SVENBERG, P. M. HELLSTRÖM, E. THEODORSSON, G. HEDENBORG & I. M. MODLIN

85 Clinical Evaluation of a Low Junction of the Cystic Duct
S. UETSUJI, Y. OKUDA, H. KOMADA, M. YAMAMURA & Y. KAMIYAMA

89 Gastroprotective Capability of Exogenous Phosphatidylcholine in Experimentally Induced Chronic Gastric Ulcers in Rats
B. S. DUNJIC, J. AXELSON, A. AR'RAJAB, K. LARSSON & S. BENGMARK

95 Seasonal Variation in Exacerbations of Ulcerative Colitis
C. TYSK & G. JÄRNEROT

No. 2

97 Review: Endotoxin, Cytokines, and Hyperlipidemia
W. LIAO & C.-H. FLORÉN

104 Perfusion of the Human Distal Colon and Rectum Evaluated with Endoscopic Laser Doppler Flowmetry. Methodologic Aspects
K. KROHG-SØRENSEN & O. C. LUNDE

109 Reduced Sensitivity to Intra-Oesophageal Acid in Patients with Reflux-Induced Strictures
P. J. WINWOOD, C. C. MAVROGIANNIS & C. L. SMITH

113 The Incidence of Reflux Oesophagitis. A Study of Endoscopy Reports from a Defined Catchment Area in Sweden
L. LÖÖF, P. GÖTELL & B. ELFBERG

119 Interobserver Variation in the Endoscopic Diagnosis of Reflux Esophagitis
P. BYTZER, T. HAVELUND & J. MØLLER HANSEN

126 Lack of Concomitant Expression of ICAM-1 and HLA-DR on Bile Duct Cells from Patients with Primary Sclerosing Cholangitis and Primary Biliary Cirrhosis
U. BROOMÉ, R. HULTCRANTZ & A. SCHEYNIUS

131 Nucleation Time and Fatty Acid Composition of Lecithin in Human Gallbladder Bile
S. HATSUSHIKA, S. TAZUMA & G. KAJIYAMA

137 Dihydropyridine Calcium Channel Antagonists Disrupt Migrating Myoelectric Complexes and Counteract Intestinal Disorders Associated with Morphine Withdrawal Diarrhea
M. THOLLANDER, P. M. HELLSTRÖM & T. H. SVENSSON

145 Portacaval Shunt Increases the Trophic Effect of Cholecystokinin on the Rat Pancreas
A.-G. NYLANDER, D. CHEN, J. F. REHFELD & R. HÅKANSON

149 Nitric Oxide Release in Response to Gut Injury
M. J. S. MILLER, X.-J. ZHANG, H. SADOWSKA-KROWICKA, S. CHOTINARUEMOL, J. A. McINTYRE, D. A. CLARK & S. A. BUSTAMANTE

155 The Effect of Exogenous Administration of *Lactobacillus reuteri* R2LC and Oat Fiber on Acetic Acid-Induced Colitis in the Rat
R. FABIA, A. AR'RAJAB, M.-L. JOHANSSON, R. WILLÉN, R. ANDERSSON, G. MOLIN & S. BENGMARK

163 Smoking and Intestinal Absorption of Oral Polyethylene Glycols in Crohn's Disease
J. SÖDERHOLM, G. OLAISON, R. SJÖDAHL & C. TAGESSON

168 Randomized Clinical Trial of Furazolidone for Typhoid Fever in Children
P. DUTTA, R. RASAILY, M. R. SAHA, U. MITRA, B. MANNA, S. CHAKRABORTY & A. MUKHERJEE

173 Gastric Mucosal Microcirculation and Purine Nucleotide Metabolism after Retransfusion of Rats in Hemorrhagic Shock
T. EKMAN, B. RISBERG, B. SOUSSI & U. BAGGE

179 Effect of Once Daily Intravenous and Oral Omeprazole on 24-Hour Intragastric Acidity in Healthy Subjects
C. CEDERBERG, K. RÖHSS, P. LUNDBORG & L. OLBE

185 Endoscopic Management of Malignant Biliary Obstruction. Is Stent Size of 10 French Gauge Better Than 7 French Gauge?
F. MØLLER PEDERSEN

190 Case Report: Peritoneal Mesothelioma without Ascites Formation
E. VAN DER HARST, E. H. P. A. VAN DONGEN, P. P. VIERGEVER & W. W. MEIJER

Erratum: 2nd page of Meetings

No. 3

193 Review: Barrett's Esophagus and Esophageal Adenocarcinoma. Endoscopic and Histologic Surveillance
P. KRUSE, S. BOESBY, I. T. BERNSTEIN & I. B. ANDERSEN

197 The Value of Ultrasound in the Follow-up of Patients Treated with Biliary Lithotripsy. Implications for Monitoring Patients after Nonsurgical Therapy of Gallbladder Stones
K. BRAKEL, R. DEN TOOM, J. S. LAMÉRIS, H. G. T. NIJS, R. L. VAN DER HUL, P. W. PLAISIER, O. T. TERPSTRA & H. E. SCHÜTTE

202 Ketotifen—Old Drug, New Indication: Reduction of Gastric Mucosal Injury
R. ELIAKIM, F. KARMELI & D. RACHMILEWITZ

205 Regional Small-Intestinal Permeability in Vitro to Different-Sized Dextrans and Proteins in the Rat
N. PANTZAR, B. R. WESTRÖM, A. LUTS & S. LUNDIN

212 Specificities of Monoclonal Antibodies to Domain I of α-Gliadins
H. J. ELLIS, A. P. DOYLE, H. WIESER, R. P. STURGESS & P. J. CICLITIRA

217 Usefulness of Hepatic Artery Injection of Iodized Oil and ^{131}I-Labeled Iodized Oil before the Therapeutic Decision in Hepatocellular Carcinoma
J.-L. RAOUL, R. DUVAUFERRIER, J.-F. BRETAGNE, P. BOURGUET, D. HERESBACH, L. SIPROUDHIS & M. GOSSELIN

224 Lansoprazole versus Omeprazole in Short-Term Treatment of Reflux Oesophagitis. Results of a Scandinavian Multicentre Trial
J. G. HATLEBAKK, A. BERSTAD, L. CARLING, L.-E. SVEDBERG, P. UNGE, P. EKSTRÖM, L. HALVORSEN, A. STALLEMO, N. HOVDENAK, R. TRONSTAD, E. KITTANG & O. J. LANGE

229 Different Modes of Fragmenting Gallstones in Extracorporeal Shockwave Lithotripsy
R. NITSCHE, V. SCHWEINSBERG, H. KLENGEL, P. D. NIEDMANN & U. R. FÖLSCH

235 Features of Symptomatic Gastroesophageal Reflux in Elderly Patients
H. ZHU, F. PACE, O. SANGALETTI & G. BIANCHI PORRO

239 The Funen Adenoma Follow-Up Study. Characteristics of Patients and Initial Adenomas in Relation to Severe Dysplasia
O. D. JØRGENSEN, O. KRONBORG & C. FENGER

244 Prophylaxis of Gastrointestinal Tract Bleeding in Patients Admitted to a General Hospital Ward. Comparative Study of Sucralfate and Cimetidine
J. M. GRAU, J. CASADEMONT, J. FERNÁNDEZ-SOLÁ, F. CARDELLACH & A. URBANO-MÁRQUEZ

249 Fermentation of Dietary Fibre by Human Colonic Bacteria: Disappearance of, Short-Chain Fatty Acid Production from, and Potential Water-Holding Capacity of, Various Substrates
L. D. BOURQUIN, E. C. TITGEMEYER, G. C. FAHEY JR. & K. A. GARLEB

256 Decrease in Contents of Pancreatic Carboxyl Ester Lipase, Phospholipase A_2, and Lingual Lipase in Rats with Streptozotocin-Induced Diabetes
R.-D. DUAN & B. STERNBY

261 Amino Acid Transport System of the Guinea Pig Small Intestine Is Injured by Hydroxyl Radicals
K. HAYASHI, H. AMIOKA, J.-I. KUROKAWA, Y. KUGA, S.-I. NOMURA, Y. OHKURA, H. OHTANI & G. KAJIYAMI

267 Clinical, Ultrasonographic, and Roentgenographic Study in 134 Asymptomatic Gallstone Carriers. Is Oral Ursodeoxycholic Acid Treatment Worthwhile?
F. LIRUSSI, D. PASSERA, R. M. IEMMOLO, G. NASSUATO & L. OKOLICSANYI

274 Comparison between the Lactulose/Mannitol and ^{51}Cr-Ethylenediaminetetraacetic Acid/^{14}C-Mannitol Methods for Intestinal Permeability. Frequency Distribution Pattern and Variability

of Markers and Marker Ratios in Healthy Subjects
L. BLOMQUIST, T. BARK, G. HEDENBORG, T. SVENBERG & A. NORMAN

281 Effect of Luminal Exposure of Oxidants on Intestinal Mucosal Lipid Peroxidation and Absorptive Function
S. NALINI & K. A. BALASUBRAMANIAN

285 Height, Weight, and Risk of Colorectal Cancer. An 18-Year Follow-up in a Cohort of 5249 Men
P. SUADICANI, H. O. HEIN & F. GYNTELBERG

No. 4

289 Review: What Controls Should Be Used in Studies of Acute Effects of Alcohol and Alcoholic Beverages on the Stomach and the Pancreas?
S. T. CHARI, S. TEYSSEN & M. V. SINGER

296 Neutrophil-Activating Peptide (Interleukin-8) in Colonic Mucosa from Patients with Crohn's Disease
R. S. IZZO, K. WITKON, A. I. CHEN, C. HADJIYANE, M. I. WEINSTEIN & C. PELLECCHIA

301 Gastrectomy Causes Bone Loss in the Rat: Is Lack of Gastric Acid Responsible?
P. PERSSON, R. GAGNEMO-PERSSON, D. CHEN, J. AXELSON, A.-G. NYLANDER, O. JOHNELL & R. HÅKANSON

307 Rotavirus Antigen Detection in Patients with HIV Infection and Diarrhea
H. ALBRECHT, H.-J. STELLBRINK, S. FENSKE, M. ERMER, A. RAEDLER & H. GRETEN

311 Effects of Hypercholecystokininemia Produced by Pancreaticobiliary Diversion on Pancreatic Growth and Enzyme mRNA Levels in Starved Rats
D. CHEN, K. ANDERSSON, J.-L. IOVANNA, J.-C. DAGORN & R. HÅKANSON

315 Non-Hodgkin's Lymphoma and AIDS: Frequency of Gastrointestinal Involvement in a Large Italian Series
F. PARENTE, G. RIZZARDINI, M. CERNUSCHI, S. ANTINORI, M. FASAN & G. BIANCHI PORRO

319 Effects of Sedation and Supplemental Oxygen during Upper Alimentary Tract Endoscopy
M. W. R. REED, D. P. O'LEARY, J. L. DUNCAN, A. W. MAJEED, B. WRIGHT & C. S. REILLY

323 Tumor Necrosis Factor-α Potentiates Phospholipase A_2-Stimulated Release and Metabolism of Arachidonic Acid in Cultured Intestinal Epithelial Cells (INT 407)
C. GUSTAFSON-SVÄRD, C. TAGESSON, R.-M. BOLL & B. KALD

331 Hepatitis C Virus Infection in African Patients with Liver Cirrhosis or Primary Hepatocellular Carcinoma
T. METS, J. SMITZ, P. NGENDAHAYO, L. SABBE, I. BIGILIMANA & B. NGIRABATWARE

335 Anti-c100 Antibodies to Hepatitis C Virus in Patients with Chronic Hepatitis C Virus Infection Treated with Interferon
Y. NAKANO, K. KIYOSAWA, T. SODEYAMA, E. TANAKA, K. YOSHIZAWA, K. FURUTA, Y. NAKATSUJI, A. URUSHIHARA & S. FURUTA

343 High Prevalence of Antibodies to Hepatitis C Virus among Family Members of Patients with Anti-HCV-Positive Chronic Liver Disease
E. BUSCARINI, E. TANZI, A. R. ZANETTI, E. SAVI, G. SBOLLI, G. CIVARDI, M. DI STASI, F. FORNARI & L. BUSCARINI

347 Purification of Lipase and Other Lipolytic Enzymes from the Human Pancreas
B. STERNBY

352 The Enkephalinase Inhibitor, Acetorphan, in Acute Diarrhoea. A Double-Blind, Controlled Clinical Trial versus Loperamide
J. ROGE, P. BAUMER, H. BERARD, J.-C. SCHWARTZ & J.-M. LECOMTE

355 A Study of Gastric Emptying in Non-Ulcer Dyspepsia Using a New Ultrasonographic Method
L. P. DUAN, Z. T. ZHENG & Y. N. LI

361 Adaptive Protection Related to Clearance of Ethanol in Gastric Mucosa of Cats
H. GISLASON, J. K. HERFJORD, K. GUTTU, K. GRONG, J. E. GRØNBECH, R. ULVIK & K. SVANES

No. 5

369 Review: The Mediators of Bile Action on the Exocrine Pancreas
R. L. RIEPL & P. LEHNERT

375 Efficacy of Twice Daily Doses of 40 or 20 Milligrams Famotidine or 150 Milligrams Ranitidine for Treatment of Patients with Moderate to Severe Erosive Esophagitis
T. J. SIMON, R. G. BERLIN, R. TIPPING & L. GILDE for the Famotidine Erosive Esophagitis Study Group

381 The Significance of Probe Design in Evaluation of Colonic Perfusion with Laser Doppler Flowmetry
K. KROHG-SØRENSEN, P. D. LINE & K. KVERNEBO

387 Gastric Acid Secretion and Pattern of Gastroesophageal Reflux in Patients with Esophagitis and Concomitant Duodenal Ulcer. A Multivariate Analysis of Pathogenetic Factors
H. ZHU, F. PACE, O. SANGALETTI & G. BIANCHI PORRO

393 Enteric Bacterial Translocation after Intraperitoneal Implantation of Rubber Drain Pieces
W. GUO, R. ANDERSSON, Å. LJUNGH, X. D. WANG & S. BENGMARK

401 Cholecystokinin in the Regulation of Gastric Acid and Endocrine Pancreatic Secretion in Humans
J. W. KONTUREK, R. STOLL, M. GUTWINSKA-KONTUREK, S. J. KONTUREK & W. DOMSCHKE

408 No Net Splanchnic Release of Glutathione in Man during *N*-Acetylcysteine Infusion
H. E. POULSEN, H. VILSTRUP, T. ALMDAL & K. DALHOFF

413 Effect of a Somatostatin Analogue (SMS 201-955) on Antral Gastrin Cell Hyperplasia and Hypergastrinemia Induced by a Histamine H_2-Receptor Antagonist
K. KIMURA

418 The Dependence of the in Vitro Fermentation of Dietary Fibre to Short-Chain Fatty Acids on the Contents of Soluble Non-Starch Polysaccharides
P. BRØBECH MORTENSEN & I. NORDGAARD-ANDERSEN

423 On the Biochemical Background of Cysteamine-Induced Duodenal Ulceration in the Rat
G. A. BALINT

427 Gastrointestinal Symptoms in Middle-Aged Diabetic Patients
E. JANATUINEN, P. PIKKARAINEN, M. LAAKSO & K. PYÖRÄLÄ

433 *Helicobacter pylori* Serology in Patients with Gastric Carcinoma
E. J. KUIPERS, M. GRACIA-CASANOVA, A. S. PEÑA, G. PALS, G. VAN KAMP, A. KOK, E. KURZ-POHLMANN, N. F. M. PELS & S. G. M. MEUWISSEN

438 Prevention of Duodenal Ulcer Recurrence with Penicillin. A Double-Blind, Placebo-Controlled Trial
S. J. RUNE, T. JUSTESEN, J. MØLLER HANSEN, T. GORM JENSEN, J. ERIKSEN, O. ØSTERGAARD THOMSEN, J. SCHEIBEL, O. BONNEVIE, A. BREMMELGAARD, M. VILIEN, S. KNUHTSEN, L. ELSBORG, J. HANSEN, K. LAURITSEN & H. R. WULFF

443 Gastric and Pancreatic Lipase Levels during a Test Meal in Dogs
F. CARRIERE, R. LAUGIER, J. A. BARROWMAN, I. DOUCHET, N. PRIYMENKO & R. VERGER

455 Human Pancreatic Proenzymes Are Activated at Different Rates in Vitro
A. BORGSTRÖM, C. ERLANSON-ALBERTSSON & B. BORGSTRÖM

460 Piezoelectric Shockwave Lithotripters: Differences in Fragmentation Efficiency in Vitro
H. T. SCHNEIDER, E. WEISSHAAR, A. ANDEREGG, J. P. DELMONT, J. M. BENATTAR, S. COENDOZ & C. ELL

No. 6

465 Review: Mucin-Secreting Pancreatic Cancer
J. AXELSON, Å. ANDRÉN-SANDBERG & I. IHSE

469 Exogenous Neuropeptide Y Blocks Myoelectric Activity in the Upper Gastrointestinal Tract of Starved Dogs. Brain Neuropeptide Y Converts a Fasting Pattern of Myoelectric Activity to a Fed Pattern
H. J. THOMSON, J. G. GEOGHEGAN, M. FAROUK, L. A. SAPERSTEIN, K. CHUNG, W. C. MEYERS & T. N. PAPPAS

475 Is the Use of Antihypertensives and Sedatives a Major Risk Factor for Colorectal Cancer?
P. SUADICANI, H. O. HEIN & F. GYNTELBERG

482 Gallstone Size and the Risk of Gallbladder Cancer
C. J. MOERMAN, F. J. LAGERWAARD, H. B. BUENO DE MESQUITA, A. VAN DALEN, M. S. VAN LEEUWEN & P. A. H. A. M. SCHROVER

487 Acute Effects of Smoking during Modified Sham Feeding in Duodenal Ulcer Patients. An Analysis of Nicotine, Acid Secretion, Gastrin, Catecholamines, Epidermal Growth Factor, Prostaglandin E_2, and Bile Acids
G. LINDELL, L.-O. FARNEBO, D. CHEN, E. NEXØ, J. RASK MADSEN, K. BUKHAVE & H. GRAFFNER

495 Effects of 16,16-Dimethyl Prostaglandin E_2 on Biliary Mucous Glycoprotein and Gallstone Formation in Guinea Pigs
H. SASAKI, S. TAZUMA & G. KAJIYAMA

500 The Influence of Ileal Pouch–Anal Anastomosis for Ulcerative Colitis on Ileal Glycoprotein Synthesis
M. C. WINSLET, V. POXON, A. ALLAN & M. KEIGHLEY

503 Effect of Growth Hormone on the Inflammatory Activity of Experimental Colitis in Rats
H. CHRISTENSEN, A. FLYVBJERG, H. ØRSKOV & S. LAURBERG

512 Mechanical Gastritis as Cause of Upper Gastrointestinal Hemorrhage
Y.-L. CHEN

515 Effect of Ethanol on Absorption of a Nutrient Solution in the Upper Human Intestine
A. PFEIFFER, T. SCHMIDT, N. VIDON & H. KAESS

522 Transcatheter Hepatic Arterial Drug Infusion Therapy for Hepatocellular Carcinoma. Effect on the Arterial Ketone Body Ratio
K. KAJIMURA, F. MORIYASU, H. SOMEDA, M. OKUMA, K. MORI & K. OZAWA

527 Effect of 5-Aminosalicylic Acid and Analogous Substances on Superoxide Generation and Intracellular Free Calcium in Human Neutrophilic Granulocytes
O. H. NIELSEN, P. N. BOUCHELOUCHE, D. BERILD & I. AHNFELT-RØNNE

533 Epithelial Ion Transport in the Ileal J-Pouch after Proctocolectomy in the Rat

J. D. SCHULZKE, M. FROMM, W. GOGARTEN, H. GEBHARD, P. SCHRÖDER & E.O. RIECKEN

540 Hepatocellular Carcinoma in Liver Cirrhosis. A Prospective Study
D. IMBERTI, F. FORNARI, G. SBOLLI, E. BUSCARINI, L. SQUASSANTE & L. BUSCARINI

545 Effects of Carbachol and Gastrin on ^{14}C-Aminopyrine Accumulated in Rabbit Gastric Glands and Cells
B. ROMELL, K. GIRMA, R. SEENSALU & G. NILSSON

551 Anal Endosonography in Asymptomatic Subjects
M. PAPACHRYSOSTOMOU, S. D. PYE, S. R. WILD & A. N. SMITH

557 Pepsinogen A and C Serum Levels in Relation to Acute NSAID-Associated Mucosal Lesions in Healthy Volunteers
L. AABAKKEN, C. K. AXELSSON & P. B. SZECSI

No. 7

561 Review: *Helicobacter pylori* Infection in Peptic Ulcer Disease
K. BERSTAD & A. BERSTAD

568 Changes in Gastric Hormones Associated with Gastric Outlet Obstruction. An Experimental Study in Rats
N. OMURA, H. KASHIWAGI & T. AOKI

573 Intestinal Permeability and Function in Patients Infected with Human Immunodeficiency Virus. A Comparison with Coeliac Disease
S. G. LIM, I. S. MENZIES, C. A. LEE, M. A. JOHNSON & R. E. POUNDER

581 Also with a Restrictive Transfusion Policy, Screening with Second-Generation Anti-Hepatitis C Virus Enzyme-Linked Immunosorbent Assay Would Have Reduced Post-Transfusion Hepatitis C after Open-Heart Surgery
U. L. MATHIESEN, E. KARLSSON, U. FOBERG, A. FRYDÉN, L. FRANZÉN, A. WIDELL & G. BODEMAR

585 Functional Gastrointestinal Disorders in Unselected Patients with Non-Cardiac Chest Pain
A. SCOTT, A. MIHAILIDOU, R. SMITH, J. KELLOW, M. JONES, C. LORANG, S. HUNYOR, M. LORANG, R. HOSCHL & C. TENNANT

591 Myofibroblast-Like Cells Produce mRNA for Type I and III Procollagens in Chronic Active Hepatitis
B. HÖGEMANN, A. GILLESSEN, W. BÖCKER, J. RAUTERBERG & W. DOMSCHKE

595 Follow-up of Patients Positive in Reticulum and Gliadin Antibody Tests with Normal Small-Bowel Biopsy Findings
P. COLLIN, H. HELIN, M. MÄKI, O. HÄLLSTRÖM & A.-L. KARVONEN

599 Expression of Glycoconjugates in Pancreatic, Gastric, and Colonic Tissue by *Bauhinia purpurea*, *Vicia villosa*, Peanut Lectins
G. L. SHUE, S. KAWA, M. KATO, H. OGUCHI, T. KOBAYASHI, T. KOIWAI, M. TOKOO, S. FURUTA, M. KANAI & T. HOMMA

605 Serum Selenium, Copper, and Zinc Concentrations in Crohn's Disease and Ulcerative Colitis
J. RINGSTAD, S. KILDEBO & Y. THOMASSEN

609 Changes in Gastric Mucosal Ornithine Decarboxylase and Tyrosine Phosphorylation of Proteins in Postgastrectomy Patients
R. JASZEWSKI, S. KATTA, J. TUREAUD, N. S. ZAKI & A. P. N. MAJUMDAR

613 Chemical Nature and Distribution of Calcium Compounds in Radiolucent Gallstones
D. K. AGARWAL, G. CHOUDHURI & J. KUMAR

617 Effect of Short- and Long-Term Treatment with Omeprazole on Cell Cycle Distribution in the Gastric Mucosa. Results of a Flow Cytometric Study
M. VALENTINI, F. BORTOLUZZI, C. CERNIGOI, G. TOFFOLI, E. BERTOLISSI, R. CANNIZZARO, M. SOZZI & M. FORNASARIG

622 Secretin and Portal Blood Flow
O. OLSEN, T. LORENTZEN & P. BERLAC

625 Pituitary Adenylate Cyclase-Activating Peptide Is a Potent Modulator of Human Colonic Motility
H. SCHWÖRER, A. CLEMENS, S. KATSOULIS, H. KÖHLER, W. CREUTZFELDT & W. E. SCHMIDT

633 Gastric Acid Secretion, Serum Pepsinogen I, and Serum Gastrin in Japanese with Gastric Hyperplastic Polyps or Polypoid-Type Early Gastric Carcinoma
K. HARUMA, M. YOSHIHARA, K. SUMII, A. TARI, C. WATANABE, A. KODOI & G. KAJIYAMA

638 Autonomic Vagal Nerve Dysfunction in Patients with Ulcerative Colitis
S. LINDGREN, J. STEWENIUS, K. SJÖLUND, B. LILJA & G. SUNDKVIST

643 Propranolol Absorption in Peptic Ulcer Disease
A. VALDIVIESO, R. CALVO, E. SUAREZ & J. P. GONZALEZ

647 Effects of the Muscarinic Receptor Agonist Carbachol and/or Antagonist Pirenzepine on Gastric Mucus Secretion in Rats
Y. KOJIMA, K. ISHIHARA, Y. KOMURO, K. SAIGENJI & K. HOTTA

652 The Effect of Glucose on the Plasma Concentration of Somatostatin during Caloric Deficiency in Man
O. ØKTEDALEN, P. K. OPSTAD & J. J. HOLST

No. 8

657 Review: Role of Cholecystokinin in the Control of Gastric Acid Secretion and Gastrin Release in Dogs and Healthy and Duodenal Ulcer Subjects
J. W. KONTUREK, S. J. KONTUREK & W. DOMSCHKE

661 The Fate of Ingested ^{14}C-Urea in the Urea Breath Test for *Helicobacter pylori* Infection
D. J. MUNSTER, B. A. CHAPMAN, M. J. BURT, B. R. DOBBS, R. A. ALLARDYCE, P. F. BAGSHAW, W. D. TROUGHTON & H. B. COOK

667 Same-Day Upper and Lower Endoscopy in Patients with Occult Bleeding, Melena, Hematochezia, and/or Microcytic Anemia. A Retrospective Study of 224 Patients
G. ALEMAYEHU & G. JÄRNEROT

673 Immunologic and Absorptive Tests in Celiac Disease: Can They Replace Intestinal Biopsies?
A. CARROCCIO, G. IACONO, G. MONTALTO, F. CAVATAIO, M. SORESI, I. KAZMIERSKA & A. NOTARBARTOLO

677 Drug Metabolism and Genetic Polymorphism in Subjects with Previous Halothane Hepatitis
L. RANEK, K. DALHOFF, H. ENGHUSEN POULSEN, K. BRØSEN, H. FLACHS, S. LOFT & P. WANTZIN

681 Quality of Life in Patients with Upper Gastrointestinal Symptoms. An Improved Evaluation of Treatment Regimens?
E. DIMENÄS, H. GLISE, B. HALLERBÄCK, H. HERNQVIST, J. SVEDLUND & I. WIKLUND

688 Distribution of Collagen Types I, III, and IV in Peptic Ulcer and Normal Gastric Mucosa in Man
A. GILLESSEN, B. VOß, J. RAUTERBERG & W. DOMSCHKE

690 *Helicobacter pylori* Infection and Exaggerated Gastrin Release. Effects of Inflammation and Progastrin Processing
D. Y. GRAHAM, M. F. GO, G. M. LEW, R. M. GENTA & J. F. REHFELD

695 Incidence and Characteristics of Pouchitis in the Kock Continent Ileostomy and the Pelvic Pouch
G. SVANINGER, S. NORDGREN, T. ÖRESLAND & L. HULTÉN

701 Cyclosporin A Retention Enemas in Refractory Distal Ulcerative Colitis and 'Pouchitis'
T. A. WINTER, H. R. DALTON, M. N. MERRETT, A. CAMPBELL & D. P. JEWELL

705 Is *Helicobacter pylori* Involved in the Pathogenesis of the Gastritis Characteristic of Pernicious Anaemia? Comparison between Pernicious Anaemia Relatives and Duodenal Ulcer Relatives
O. VARIS, J. VALLE & M. SIURALA

709 Contraction and Evacuation of the Gallbladder Studied Simultaneously by Ultrasonography and ^{99m}Tc-Labeled Diethyl-Iminodiacetic Acid Scintigraphy
G. RÅDBERG, M. ASZTÉLY, M. MOONEN & J. SVANVIK

714 Intravenous Drug Abuse—the Major Route of Hepatitis C Virus Transmission among Alcohol-Dependent Individuals?
H. VERBAAN, K. ANDERSSON & S. ERIKSSON

719 Effect of Synthetic Protease Inhibitor on Histologic Changes and Free Radical Activity in Hamsters with Pancreatic Cancer
T. MANABE, N. ASANO, T. YOSHIMURA, H. SUWA, T. IMAMURA & G. OHSHIO

725 The Effect of Antireflux Operations on Lower Oesophageal Sphincter Tone and Postprandial Symptoms
L. LUNDELL, J. C. MYERS & G. G. JAMIESON

732 Evaluation of a Computer-Based Diagnostic Score System in the Diagnosis of Jaundice and Cholestasis
P. A. PASANEN, P. PIKKARAINEN, E. ALHAVA, K. PARTANEN & E. JANATUINEN

737 Meal Energy Density as a Determinant of Postprandial Gastrointestinal Adaptation in Man
O. WISÉN, P. M. HELLSTRÖM & C. JOHANSSON

744 Dissolution of Cholesterol Gallbladder Stones with Methyl *Tert*-Butyl Ether in Patients with Increased Surgical Risk
B. E. EIDSVOLL, E. AADLAND, M. STIRIS & O. C. LUNDE

749 Case Report: Pancreatic Extracts Are Necessary for the Absorption of Elemental and Polymeric Enteral Diets in Severe Pancreatic Insufficiency
S. CALIARI, L. BENINI, F. BONFANTE, M. T. BRENTEGANI, A. FIORETTA & I. VANTINI

No. 9

Erratum

The 1993 Gastroenterology Prize

753 The Duodenojejunal Junction and Treitz Ligament in the Regulation of Duodenal Emptying
S. B. VIRCHENKO, V. F. SAYENKO, T. L. KUCHERENKO, N. N. TSEDIK, H. ELBRØND, J. C. DJURHUUS & P. FUNCH-JENSEN

760 Rectal Epithelial γ/δ T-Lymphocyte Responses to Local Gluten Challenge in Coeliac Disease
R. P. STURGESS, D. LOFT, M. KONTAKOU, P. CROWE, M. N. MARSH & P. J. CICLITIRA

763 Decreased Cerebrospinal Fluid β-Endorphin and Increased Pain Sensitivity in Patients with Functional Abdominal Pain
L. S. JØRGENSEN, F. W. BACH, P. CHRISTIANSEN, U. RAUNDAHL, S. ØSTGAARD & R. EKMAN

767 Gastric Mucosal Blood Flow and Neutrophil Activation in Aspirin-Induced Gastric Mucosal Damage in Man
J. W. KONTUREK, A. DEMBINSKI, R. STOLL, M. KONTUREK & W. DOMSCHKE

772 Circadian Acidity Pattern in Prepyloric Ulcers: A Comparison with Normal Subjects and Duodenal Ulcer Patients
V. SAVARINO, G. S. MELA, P. ZENTILIN, A. MALESCI, S. VIGNERI, P. SOSSAI, F. DI MARIO, P. CUTELA, M. R. MELE & G. CELLE

777 Differential Diagnosis of Human Ascites: Inhibitors of the Contact System and Total Proteins
L. BUØ, T. S. KARLSRUD, G. DYRHAUG, M. B. JACOBSEN, H. BELL, H. T. JOHANSEN & A. O. AASEN

783 Scintigraphic Study of Gastrointestinal Transit and Disintegration Sites of Mesalazine Tablets Labeled with Technetium-99m
G. SCIARRETTA, A. FURNO, M. MAZZONI, A. FERRIERI & P. MALAGUTI

786 Postprandial Conjugated and Unconjugated Serum Bile Acid Levels after Proctocolectomy with Ileal Pouch–Anal Anastomosis
J. M. J. I. SALEMANS, F. M. NAGENGAST, A. TANGERMAN, A. VAN SCHAIK, A. F. J. DE HAAN & J. B. M. J. JANSEN

791 Intra- and Peri-Hepatic Effects of Ethanol Injections in the Pig Liver
T. VEHMAS, K. TAARI, L. KIVISAARI, P. LAURILA & M. TAAVITSAINEN

795 Structural and Morphometric Analysis of Murine Small Intestine after Indomethacin Administration
R. R. ETTARH & K. E. CARR

803 Cholesterol Nucleation Time Measurement in Nasobiliary or Nasoduodenal Bile. Comparison with Surgical Bile
M. L. PETRONI, R. P. JAZRAWI, H. A. AHMED, P. J. FINCH, J. DORMANDY & T. C. NORTHFIELD

809 Peptidergic Innervation and Endocrine Cells in the Human Liver
M. EL-SALHY, R. STENLING & L. GRIMELIUS

816 Diurnal Profile of Oxyntomodulin-like Immunoreactivity in Duodenal Ulcer Patients
A. LE QUELLEC, A. KERVRAN, P. BLACHE, A. J. CIURANA & D. BATAILLE

821 Treatment of Ulcerative Colitis with High Doses of Oral Prednisolone. The Rate of Remission, the Need for Surgery, and the Effect of Prolonging the Treatment
J. KJELDSEN

827 Changes in Oesophageal pH Associated with Gastro-Oesophageal Reflux. Are Traditional Criteria Sensitive for Detection of Reflux?
J. B. WYMAN, J. DENT & R. H. HOLLOWAY

833 Effects of Dibutyryl Cyclic AMP and Papaverine on Intrahepatic Bile Acid Transport. Role of Vesicle Transport
M. HOSHINO, T. OHIWA, T. HAYAKAWA, Y. KAMIYA, A. TANAKA, A. HIRANO, T. KUMAI, K. KATAGIRI, M. MIYAJI & T. TAKEUCHI

839 Functional Alterations of the Microflora in Patients with Ulcerative Colitis
P. BENNO, C.-E. LEIJONMARCK, U. MONSÉN, A. URIBE & T. MIDTVEDT

845 Macrophage-Mediated Enterocyte Damage in BALB/c Mice Infected with Different Strains of *Giardia lamblia*
R. GOYAL, R. C. MAHAJAN, N. K. GANGULY, R. SEHGAL, S. GOROWARA & K. SINGH

No. 10

849 Review: Cyclosporin for Inflammatory Bowel Disease: Mechanisms and Possible Actions
J. BRYNSKOV

858 Effect of *Helicobacter pylori* Eradication on Antral Gastrin- and Somatostatin-Immunoreactive Cell Density and Gastrin and Somatostatin Concentrations
D. M. M. QUEIROZ, E. N. MENDES, G. A. ROCHA, S. B. MOURA, L. M. H. RESENDE, A. J. A. BARBOSA, L. G. V. COELHO, M. C. E. PASSOS, L. P. CASTRO, C. A. OLIVEIRA & G. F. LIMA JR

865 Bile Acid Malabsorption in Patients with Chronic Diarrhoea
S. EUSUFZAI

869 The Funen Adenoma Follow-up Study. Incidence and Death from Colorectal Carcinoma in an Adenoma Surveillance Program
O. D. JØRGENSEN, O. KRONBORG & C. FENGER

875 Sulglycotide in the Prevention of Nonsteroidal Anti-inflammatory Drug-Induced Gastroduodenal Mucosal Injury. A Controlled Double-Blind, Double-Dummy, Randomized Endoscopic Study versus Placebo in Rheumatic Patients
G. BIANCHI PORRO, F. MONTRONE, M. PETRILLO, I. CARUSO & S. ARDIZZONE

879 Growth-Regulatory Effects of Sensory Neuropeptides, Epidermal Growth Factor, Insulin, and Somatostatin on the Non-Transformed Intestinal Epithelial Cell Line IEC-6 and the Colon Cancer Cell Line HT 29
J. BJÖRK, J. NILSSON, R. HULTCRANTZ & C. JOHANSSON

885 Effects of Protein Malnutrition on Experimental Giardiasis in the Mongolian Gerbil
G. J. LEITCH, I. A. UDEZULU, Q. HE & G. S. VISVESVARA

894 Green Banana Protection of Gastric Mucosa against Experimentally Induced Injuries in Rats. A Multicomponent Mechanism?
B. S. DUNJIĆ, I. SVENSSON, J. AXELSON, P. ADLERCREUTZ, A. AR'RAJAB, K. LARSSON & S. BENGMARK

899 Biotinidase Activity in Patients with Liver Disease
T. NAGAMINE, S. SAITO, S. YAMADA, T. ARAI, K. TAKEHARA & T. FUKUI

907 Inhibitory Effects of Terbutaline on Human Esophageal Peristalsis and Development of Tolerance
E. LYRENÄS, C. SAND & H. ABRAHAMSSON
911 The Correlation of Symptoms, Occult Blood Tests, and Neoplasms in Patients Referred for Double-Contrast Barium Enema
J. JENSEN, J. KEWENTER & J. SWEDENBORG
915 An in Vitro Study of Enhanced H^+ Diffusion by Urease Action on Urea. Implications for *Helicobacter pylori*-Associated Peptic Ulceration
M. A. DESAI & P. M. VADGAMA
920 Is Duodenal Bile Representative of Gallbladder Bile? A Comparative Study
G. CHOUDHURI, D. K. AGARWAL, V. A. SARASWAT, T. S. NEGI, R. SAXENA & V. K. KAPOOR
924 Case Report: Intestinal Metaplasia, Not Atrophy or Achlorhydria, Creates a Hostile Environment for *Helicobacter pylori*
R. M. GENTA & D. Y. GRAHAM

No. 11

929 Review: Detection and Management of Common Bile Duct Stones in the Era of Laparoscopic Cholecystectomy
R. L. VAN DER HUL, P. W. PLAISIER, J. F. HAMMING, H. A. BRUINING & M. VAN BLANKENSTEIN
934 Efficacy and Side Effects of a Triple Drug Regimen for the Eradication of *Helicobacter pylori*
J. C. THIJS, A. A. VAN ZWET & H. B. OEY
939 Treatment of *Helicobacter pylori* Reduces the Rate of Rebleeding in Peptic Ulcer Disease
D. Y. GRAHAM, K. S. HEPPS, F. C. RAMIREZ, G. M. LEW & Z. A. SAEED
943 Motility-Related Cyclic Fluctuations of Interdigestive Gastric Acid and Bicarbonate Secretion in Man. A Source of Substantial Variability in Gastric Secretion Studies
J. DALENBÄCK, A. MELLANDER, L. OLBE & H. SJÖVALL
949 Postoperative Course of Functional and Cellular Variables in Liver Resection
U. BOLDER, J. TACKE, M. IMHOFF & D. LÖHLEIN
958 Large-Bowel Mucosal Biotransformation Activity in Persons at High Risk for Colorectal Cancer. A Preliminary Report
M. TOBI, E. DARMON, P. ROZEN, S. AVIGDOR, J. RATTAN, M. SANTO & E. R. BARNEA
963 Reduced Accuracy of ^{14}C-D-Xylose Breath Test for Detecting Bacterial Overgrowth in Gastrointestinal Motility Disorders
M. A. VALDOVINOS, M. CAMILLERI, G. M. THOMFORDE & C. FRIE
969 Efficacy of Sucralfate in Treatment of Non-Ulcer Dyspepsia. A Double-Blind Placebo-Controlled Study
H. GUDJÓNSSON, E. ODDSSON, S. BJÖRNSSON, Ó. GUNNLAUGSSON, Á. THEODORS, T. Á. JÓNASSON, O. BONNEVIE & B. THJODLEIFSSON
973 Parietal Cell Antibodies among Peruvians with Gastric Pathologic Changes
I. C. KOHLSTADT, E. A. ANTUNEZ DE MAYOLO, GASTROINTESTINAL PHYSIOLOGY WORKING GROUP & C. RAMIREZ-ICAZA
978 Long-Term Omeprazole Therapy Does Not Affect *Helicobacter pylori* Status in Most Patients
E. J. KUIPERS, E. C. KLINKENBERG-KNOL, H. P. M. FESTEN, C. B. H. W. LAMERS, J. B. M. J. JANSEN, P. SNEL, F. NELIS & S. G. M. MEUWISSEN
981 The Influence of Cholestasis on CA 50 and CA 242 in Pancreatic Cancer and Benign Biliopancreatic Diseases
B. PÅLSSON, P. MASSON & Å. ANDRÉN-SANDBERG
988 Hypercholecystokininemia Produced by Pancreaticobiliary Diversion Causes Gastrin-Like Effects on Enterochromaffin-Like Cells in the Stomach of Rats Subjected to Portacaval Shunting or Antrectomy
D. CHEN, A.-G. NYLANDER, J. F. REHFELD, F. SUNDLER & R. HÅKANSON
993 Breath Methane Excretion and Intestinal Methanogenesis in Children and Adults in Rural Nigeria
M. J. HUDSON, A. M. TOMKINS, H. S. WIGGINS & B. S. DRASAR
999 Does Antral Distension Inhibit Gastric Acid Secretion or Stimulate Bicarbonate Secretion in 'Healthy' Subjects?
A. HAMLET, J. DALENBÄCK, L. OLBE & L. FÄNDRIKS
1005 Potential of Measurements of Unsaturated Vitamin B_{12}-Binding Capacity in Serial Colonoscopic Biopsy Specimens for Global and Regional Assessments of Disease Severity in Inflammatory Bowel Disease
M. SCHLUP, A. CHANG, D. CHADWICK, D. FERRY & V. CHADWICK
1011 Determinants of Symptoms Suggestive of Gastroesophageal Reflux Disease in the Elderly
I. RÄIHÄ, O. IMPIVAARA, M. SEPPÄLÄ, L-R. KNUTS & L. SOURANDER
1015 Safety of Enoxaparin and Dextran-70 in the Prevention of Venous Thromboembolism in Digestive Surgery. A Play-the-Winner-Designed Study
O. REIERTSEN, S. LARSEN, R. STØRKSON, E. TRONDSEN, T. LØVIG, O. K. ANDERSEN, H. LUND & P. MOWINCKEL
1021 Does Physiologic Gastroesophageal Reflux Affect Heart Rate or Rhythm?
R. A. WRIGHT, S. A. McCLAVE & J. PETRUSKA

No. 12

1025 Mucosal Origin and Shedding of an Early Colonic Tumor Marker Defined by Adnab-9 Monoclonal Antibody
M. TOBI, Y. ELITSUR, M. P. MOYER, A. HALLINE, M. DEUTSCH, L. NOCHOMOVITZ & G. D. LUK

1035 Inflammation as a Major Cause of Fluid Losses in Small-Bowel Obstruction
P. NELLGÅRD & J. CASSUTO

1042 Portal Hypertension and Esophageal Varices in Cystic Fibrosis. Unreliability of Echo-Doppler Flowmetry
E. A. VALLETTA, S. LORETI, M. CIPOLLI, G. CAZZOLA AND L. ZANOLLA

1047 Effects of Ebrotidine on Aspirin-Induced Gastric Mucosal Damage and Blood Flow in Humans
S. J. KONTUREK, N. KWIECIEN, E. SITO, W. OBTULOWICZ, K. KAMINSKI & J. OLEKSY

1051 Effect of Wheat Fibre Supplements on Duodenal Ulcer Recurrence
A. RYDNING, B. BØRKJE, O. LANGE, E. AADLAND, H. BELL, B. ØDEGAARD MYKLESTAD & T. HANSEN

1055 Evaluation of Acetic Acid-Induced Gastric Ulcers in Dogs by Endoscopic Ultrasonography
A. MARUOKA, H. FUJISHIMA, T. MISAWA, Y. CHIJIIWA & H. NAWATA

1062 Diagnosis and Treatment of Acute Lower Gastrointestinal Bleeding
J. T. MÄKELÄ, H. KIVINIEMI, S. LAITINEN & M. I. KAIRALUOMA

1067 *Helicobacter pylori* Infection in a Randomly Selected Population, Healthy Volunteers, and Patients with Gastric Ulcer and Gastric Adenocarcinoma. A Seroprevalence Study in Taiwan
J.-T. LIN, J.-T. WANG, T.-H. WANG, M.-S. WU, T.-K. LEE & C.-J. CHEN

1073 Faecal Calprotectin: A Novel Test for the Diagnosis of Colorectal Cancer?
A. G. RØSETH, J. KRISTINSSON, M. K. FAGERHOL, H. SCHJØNSBY, E. AADLAND, K. NYGAARD & B. ROALD

1077 A Prospective Study of First Attacks of Inflammatory Bowel Disease and Non-Relapsing Colitis. Microbiologic Findings
G. SCHUMACHER, B. KOLLBERG, B. SANDSTEDT, C. JORUP, L. GRILLNER, Å. LJUNGH & R. MÖLLBY

1086 Pancreatic Atrophy: A New Model Using Serial Intra-Peritoneal Injections of L-Arginine
C. P. DELANEY, K. F. McGEENEY, P. DERVAN & J. M. FITZPATRICK

1091 Effect of Stimulation of Mucosal HCO_3^- Secretion on Acid-Induced Injury to Porcine Duodenal Mucosa
M. A. AINSWORTH, C. FENGER, P. SVENDSEN & O. B. SCHAFFALITZKY DE MUCKADELL

1098 Micronutrient Antioxidant Status in Tropical Compared with Temperate-Zone Chronic Pancreatitis

1091 Effect of Stimulation of Mucosal HCO_3^- Secretion on Acid-Induced Injury to Porcine Duodenal Mucosa
M. A. AINSWORTH, C. FENGER, P. SVENDSEN & O. B. SCHAFFALITZKY DE MUCKADELL

1098 Micronutrient Antioxidant Status in Tropical Compared with Temperate-Zone Chronic Pancreatitis

J. M. BRAGANZA, D. SCHOFIELD, C. SNEHALATHA & V. MOHAN

1105 Local and Systemic Immune Response in *Helicobacter pylori*-Associated Chronic Gastritis before and after Treatment
L. ENGSTRAND, S. GUSTAVSSON, A. SCHWAN & A. SCHEYNIUS

1112 Gastric Lesions Induced by Concentrated Ethanol Are Associated with a Decrease in Gastric Calcitonin Gene-Related Peptide-Like Immunoreactivity in Rats
S. EVANGELISTA, M. TRAMONTANA, C. PANERAI, C. SURRENTI & D. RENZI

1115 Comparison between Radiologic and Endoscopic Evaluation of the Continent Ileostomy Reservoir
K. G. LYCKE, J. H. GÖTHLIN, J. K. JENSEN, B. M. PHILIPSON & N. G. KOCK

Index for Volume 28, 1993

Supplements Published in Volume 28, 1993

Supplement 195

A Round Table on Dyspepsia. Proceedings of a Symposium Held in Athens on 30 September 1992. Edited by R. C. Heading

Supplement 196

The Role of Acid Inhibition in the Management of *Helicobacter pylori* Infection. Proceedings of a Symposium Held in Dublin, Ireland, 5 July 1992. Edited by A. T. R. Axon and H. J. O'Connor

Supplement 197

Abstracts of Papers Presented at the Twenty-Sixth Nordic Meeting on Gastroenterology and the Seventeenth Nordic Meeting on Endoscopy and the Fourth Nordic Meeting on Gastrointestinal Motility. Tampere, Finland, 26–29 May 1993. Edited by J. Isolauri, A-L. Karvonen, P. Pikkarainen and K.-M. Hiltunen

Supplement 198

First Attack of Inflammatory Bowel Disease and Infectious Colitis. A Clinical, Histological and Microbiological Study with Special Reference to Early Diagnosis. By Gudrun Schumacher

Supplement 199

Quality of Life in Gastrointestinal Diseases. Edited by H. Glise, B. Hällerback and E. Dimenäs

Supplement 200

Highlights of Gastroenterology in The Netherlands, 1993. Proceedings of a Symposium Held 15–18 April 1993 in Barcelona, Spain. Edited by C. B. H. W. Lamers and G. Odijk